# Results of MACP Evaluations in 2013: ACMS, AHEAD, MAP

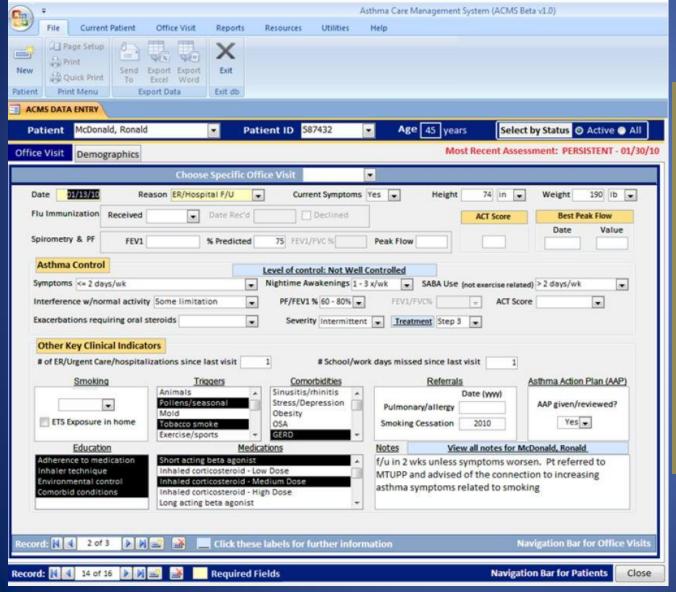
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# Introduction

- Strategic Evaluation Plan timeline for 2013
  - Asthma Care Monitoring System (ACMS)
  - Asthma Hospital and Emergency Department Patient Education, Action Plan and Discharge (AHEAD) protocol
  - Montana Asthma Home Visiting Project (MAP)

# Introduction-ACMS



- Quality improvement software
- Registry of a facility's asthma patients
- Based on EPR-3 Guidelines

# **Evaluation Questions-ACMS**

Process

How many sites are implementing ACMS?

Are sites submitting complete and timely data and in a suitable format?

How many asthma patients are being managed with the registry?

Outcome

Of the people seen at ACMS sites, are their asthma outcomes improving?

Are sites using ACMS to do quality improvement projects and improve care as outlined in the EPR-3 guidelines?

# Methods-ACMS

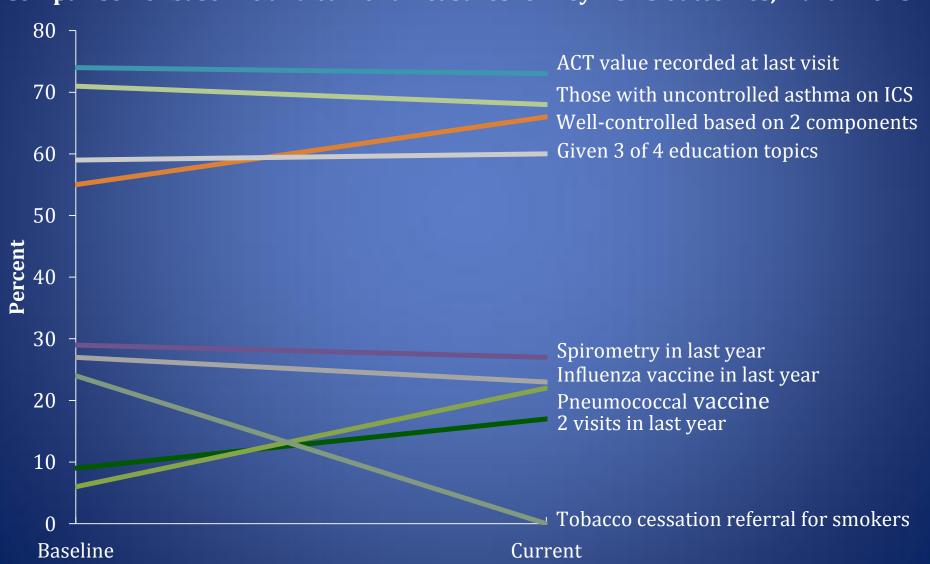
- Analyzed quarterly data submitted by sites using ACMS
- Interviewed ACMS users

# Results-ACMS

- 10 facilities installed ACMS
  - 6 pharmacies
  - 3 physician offices, 1 state health benefit program
- Pharmacies receive funding
- More asthma education training requested
- Quarterly reports not being used to the fullest
- EHR has had a large effect on use of ACMS

# Results-ACMS

Comparison of baseline and current measures for key ACMS outcomes, March 2013



# Discussion-ACMS

- Consider funding or incentive for trial use
- Work to market ACMS in other venues
- Consider creating an additional educational presentation
- Improve usability of quarterly report
- Research EHR software

# Introduction-AHEAD

- Protocol to facilitate the provision of EPR-3 Guidelines upon discharge from the ED
  - Action plan
  - Inhaler technique
  - Scheduled follow-up appointment
  - Asthma education

#### The ART of Controlling Asthma

Today your asthma caused you to come to the emergency room or hospital. This is a sign that your asthma is not controlled. With a little work you can control asthma instead of having asthma control you. Use the information in this packet and work with your regular healthcare provider to develop a plan to manage your disease.

#### What is asthma?

Asthma is a chronic, lifelong disease that makes it hard to get air in and out of the lungs. In your lungs the following things are happening:

- The lining of your airwarys is swollen and you have more mucus, even when you are not having an attack.
- When you have an attack, the muscles around the airway squeeze down, making it hard to get air into your lungs.

#### Normal Airway



#### Asthmatic Airway



#### How is asthma controlled?

#ADAM.

Even though asthma is a lifelong disease, a few simple steps can help you breathe easy. This packet covers the ART of controlling asthma in three steps:

- Avoid asthma triggers
- 2. Regularly visit your doctor
- 3. Take your asthma medications

Read this information carefully and talk with the nurse or doctor if you have any questions. Most importantly, be sure that you see your regular doctor in the next few weeks to make a plan to control your asthma.

This material was produced by the Montana Asthma Control Program at the Montana Department of Public Health and Human Services

For more information visit: http://dphhs.mt.gov/asthma or www.lungusa.org



# **Evaluation Questions-AHEAD**

**Process** 

How many EDs are implementing AHEAD?

How many asthma pts have been affected by the AHEAD protocol?

How useful/functional are the materials?

Are EDs able to implement the protocol with all asthma ED visits?

Outcome

Upon discharge, are asthma pts receiving care according to the EPR-3?

# Methods-AHEAD

- Analyzed data collected at participating AHEAD sites
  - Pre and post implementation chart reviews
- Interviewed AHEAD coordinators

### Results-AHEAD

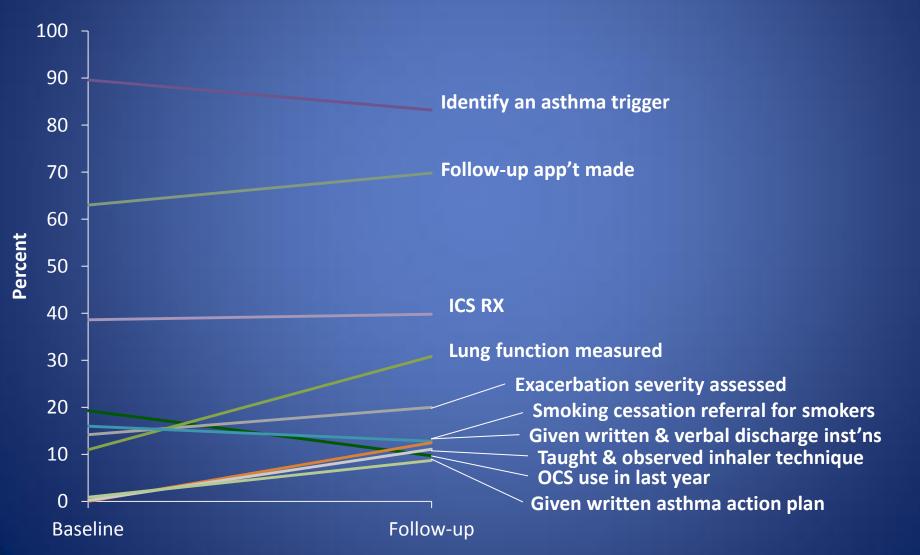
- Charting of asthma related care improved or was brought to attention of staff as being limited
- Provided standardized care to asthma patients
- Identified areas for training improvement
- Materials received considered very useful
- Increased knowledge of EPR-3 Guidelines for ED

# Results-AHEAD

Facility	Initial training	Implement	Follow-up	Comments
	and chart	year	chart	
11000	abstraction		abstraction	
Α				Staff turnover may have affected progress,
				may repeat trainings/implementation
В				Unable to reach contact person
С				Requesting follow-up abstraction to re-review
				progress, evaluation informant
D				Evaluation informant
Е				Facility changed hospitals mid-
				implementation, may have affected progress
F				Unable to reach contact person
G				Follow-up to be scheduled soon
Н				Follow-up to be scheduled soon
1				Follow-up to be scheduled soon
J				Evaluation informant, follow-up not due until
				Sept. 2013
K				Evaluation informant, follow-up not due until
				Nov. 2013
	Completed	In progress	Unable to	
			complete	

# Results-AHEAD

Comparison of baseline and current measures for AHEAD outcomes, March 2013

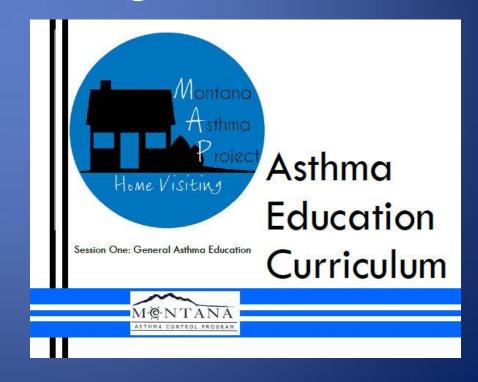


# Discussion-AHEAD

- Quality of charting affects outcome measurement
- Takes more than 1 year to implement and show successes
- Need to have support of all staff, including physicians, nurses, and respiratory therapy for full implementation
- Rethink presentation delivery and organization

# Introduction-MAP

- Multi-component home based asthma education program
- Includes 6 contacts with a Registered Nurse



# **Evaluation Questions-MAP**

Process

How many families expressed interest and how many enrolled?

How many children with asthma received a home visit?

How many visits did each child receive?

How many services were provided for children with asthma?

Are MAP sites satisfied with the program, curriculum & MACP support?

Outcome

Was there a decrease in symptoms, days of school missed, and an increase in asthma control?

Does the family feel more equipped to handle asthma in the home?

Has the family's financial commitment to asthma decreased?

What is the cost benefit of the program?

### Methods-MAP

- Analyzed data collected at participating MAP sites
  - Quarterly data submissions
- Interviewed MAP home visiting nurses

# Results-MAP

- 109 enrolled, 22 active
  - 20% of children only receive 1 visit, 47% completed all 6 visits
- First visit is very long, most other visits average 1 hour
- Half boys, nearly half less than 6 years old
- Similar characteristics between those who completed and those who were lost to follow up
  - Except those of races other than White or of Hispanic ethnicity.

### Results-MAP

- Recruitment has been difficult
- Identified need for different tracks for different families

### Results-MAP

#### Best

- The support we got dealing with our landlord
- The individual attention
- Getting the mattress/pillow covers and the HEPA filter
- Friendly knowledgeable nurse who really truly cares about the info
- Having someone to ask asthma questions
- House visits so she could point out in my house what we could change
- Now I know how to control my asthma when it is bugging me
- The cleaning list and ways of reducing allergens. I also love the curriculum. It was easy for my daughter to understand.
- I liked the knowledge to know how to better monitor my daughter's asthma.
- The reiteration of the education component of the program. Also, getting the referral to Dr. Cady.

#### Worst

- Some of the information provided seemed redundant at times
- Taking the quizzes
- Ending the visits, I would like to be able to contact the asthma nurse when I need to

# Discussion-MAP

- Build more flexibility into visits
- Offer incentives to all families
- Improve recruitment systems
- Consider annual training for nurses
- Consider doing paperwork in the office first before primary visit

# **THOUGHTS?**

# Evaluation 2014

- Asthma Educator Initiative
- School Nurse Mini-grant Program

# **CONTACT INFORMATION**

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